

Research, Informatics and Graduate Studies

<https://sites.gtiit.edu.cn/research/positions/gs-2024002/>

PhD/Master (MSc)
Positions in Fluid/Solid mechanics and Surface
Science (GS-2024002) – Group of Assoc. Prof.
Youhua Jiang

GTIIT

GTIIT, www.gtiit.edu.cn

Technion Technion 79

Technion

GTIIT is a satellite university of Technion – Israel institute of Technology, which ranks 79 in the ARWU ranking. The students will be co-advised by an advisor at Technion and an advisor at GTIIT, conduct research at GTIIT, take courses at GTIIT, and receive the diploma from Technion.

GTIIT

GTIIT-Technion

SCIENCE

2020

SCIENCE

GTIIT-Technion

The

Jiang

Group <https://www.thejianggroup.com>

Prof. Youhua Jiang is an associate professor at the Mechanical Engineering department. He has published more than 30 papers in well-renowned journals in Interfacial Phenomena, Surface Science, Mechanics, and Physical Chemistry. He has also been awarded many competitive grants, including NSFC and Guangdong-NSF, and is a reviewer for NSFC.

GTIIT

GTIIT

GTIIT-Technion

GTIIT-Technion

Research condition: the research group has many research facilities in droplet dynamics and statics, and micro-/nanofabrication.

GTIIT

GTIIT-Technion

SCIENCE

The achievements of students: The lab has been established for around 2 years. Regardless of the background, every student will publish one paper in well-renowned journals after around 1.5 years, such as:

Tang, J.; Shan, Y.*; **Jiang, Y.***, The Control of Dry-Out Patterns using Bubble-Containing Droplets, *J. Colloid Interf. Sci.* 2023, 645, 12-21. Top

Wei, C.; Zong, Y.; **Jiang, Y.***, Bioinspired Wire-On-Pillar

Position

PhD/Master

Program

Mechanical Engineering (Robotics)

Contact

Assoc. Prof. Youhua Jiang

Email: youhua.jiang@gtiit.edu.cn

[Web Page Link](#)

Application Deadline

Open till filled

Date posted

January 12, 2024

Location

Guangdong Technion – Israel Institute of Technology (GTIIT), China & Technion-Israel Institute of Technology, Israel.

[Fees & Finance](#)

How to Apply

Magneto-Responsive Superhydrophobic Arrays, *ACS. Appl. Mater. Interfaces* 2023, 15(20), 24989-24998. [Top](#)

Zong, Y.; Oron, A.; Liu, H.; **Jiang, Y.***, Dynamic and Quasi-Static Droplet Penetration Through Meshes, *Langmuir* 2023, 39(28), 9808-9815. [Top](#)

Liu, B.; Tang, J.; Li, J.; Shan, Y.*; **Jiang, Y.***, Soft Wetting: Modified Cassie-Baxter Equation for Soft Superhydrophobic Surfaces, *Colloids Surf. A.* 2023, 677, 132348.

Li, J.; Oron, A.; **Jiang, Y.***, Droplet Jump-off Force on a Superhydrophobic Surface, *Phys. Rev. Fluids*, 2023, 8(11), 113601

Wei, C.; Gendelman, O.; **Jiang, Y.***, A Superhydrophobicity-Slipperiness Switchable Surface with Magneto- and Thermo-Responsive Wires for Repelling Complex Droplets, *Langmuir*, in press [Top](#)

Research Interests

Technion [https://www.technion.ac.il](#)
[https://www.jianggroup.com](#)

Group culture: Based on the reputation of Technion, the research group has high standards for students. For students with strong motivations, they will learn a lot.

Admission Requirements

[https://www.technion.ac.il](#)

1. [https://www.technion.ac.il](#)85
2. [https://www.technion.ac.il](#)
3. **GRE**
[https://www.technion.ac.il](#)
4. [https://www.technion.ac.il](#)

[https://www.technion.ac.il](#)

1. **For MSc** The average score for undergraduate study should be above 85
2. **For Ph.D.** It will be discussed case by case.
3. The GRE or Tofel may be waived for special conditions.
4. For Ph.D., the candidates need to be in those areas

Fluid mechanics, Solid mechanics, Thermodynamics, Interfacial Phenomena, Micro-/nanofabrication, MEMS

Publications

<https://www.thejianggroup.com>

youhua.jiang@gtit.edu.cn

- [PPT](#) [PPT](#)
- [15](#) [15](#)
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Please take a look at <https://www.thejianggroup.com> and contact Prof. Youhua Jiang via youhua.jiang@gtit.edu.cn.

- The students will need to take a 30-mins interview by demonstrating their capability via a PPT.
- Talk to Prof. Jiang.